B3GALT2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	B3GALT2, Polyclonal Antibody
Full Product Name	B3GALT2, CT (B3GALT2, Beta-1,3-galactosyltransferase 2, UDP-galactose:2-acetamido-2-deoxy-D-glucose 3beta-galactosyltransferase 2) (MaxLight 750)
Product Gene Name	anti-B3GALT2 antibody
Product Synonym Names	B3GALT2; Beta-1,3-galactosyltransferase 2; UDP-galactose:2-acetamido-2-deoxy-D-glucose 3beta-galactosyltransferase 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	49,213 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (193147860..193155743, complement). Location: 1q31
OMIM	603018
3D Structure	ModBase 3D Structure for O43825
Immunogen	B3GALT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 393-422 amino acids from the C-terminal region of human B3GALT2.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-B3GALT2 antibody	Antibodies; Enzymes; Glycosyltransferase
Applications Tested/Suitable for anti-B3GALT2 antibody	Western Blot (WB), FLISA
Application Notes for anti-B3GALT2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-B3GALT2 antibody	MaxLight750 is a new Near IR stable dye conjugate comparable to DyLight750, Alexa Fluor700 and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (759nm); Emission (780nm); Extinction Coefficient 240,000.
Product References and Citations for anti-B3GALT2 antibody	Lamesch, P., et al. Genomics 89(3):307-315(2007). Sood, R., et al. Genomics 73(2):211-222(2001). Amado, M., et al. Biochim. Biophys. Acta 1473(1):35-53(1999). Amado, M., et al. J. Biol. Chem. 273(21):12770-12778(1998). Kolbinger, F., et al. J. Biol. Chem. 273(1):433-440(1998).

Other Notes	Small volumes of anti-B3GALT2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for B3GALT2 purchase	MBS6277072 is an antibody targeting B3GALT2. Also known as B3GALT2, CT (B3GALT2, Beta-1,3-galactosyltransferase 2, UDP-galactose:2-acetamido-2-deoxy-D-glucose 3beta-galactosyltransferase 2) (MaxLight 750). Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for B3GALT2. It may not necessarily be applicable to this product.

NCBI GI #	4502339
NCBI GeneID	8707
NCBI Accession #	NP_003774.1
UniProt Primary Accession #	O43825
UniProt Secondary Accession #	Q9BZQ9; B2RAB1
UniProt Related Accession #	O43825
GenBank Nucleotide #	NM_003783.3
NCBI Official Full Name	beta-1,3-galactosyltransferase 2
NCBI Official Synonym Full Names	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2
NCBI Official Symbol	B3GALT2
NCBI Official Synonym Symbols	GLCT2; BETA3GALT2; beta3Gal-T2
UniProt Protein Name	Beta-1,3-galactosyltransferase 2
UniProt Synonym Protein Names	UDP-galactose:2-acetamido-2-deoxy-D-glucose 3beta-galactosyltransferase 2
Protein Family	Beta-1,3-galactosyltransferase
UniProt Gene Name	B3GALT2
UniProt Entry Name	B3GT2_HUMAN
NCBI Protein Information	beta-1,3-galactosyltransferase 2; beta-3-galt2; OTTHUMP00000033797; beta-1,3-GalTase 2; UDP-galactose:2-acetamido-2-deoxy-D-glucose 3beta-galactosyltransferase 2
NCBI Summary for B3GALT2	This gene is a member of the beta-1,3-galactosyltransferase (beta3GalT) gene family. This family encodes type II membrane-bound glycoproteins with diverse enzymatic functions using different donor substrates (UDP-galactose and UDP-N-acetylglucosamine) and different acceptor sugars (N-acetylglucosamine, galactose, N-acetylgalactosamine). The beta3GalT genes are distantly related to the Drosophila Brainiac gene and have the protein coding sequence contained in a single exon. The beta3GalT proteins also contain conserved sequences not found in the beta4GalT or alpha3GalT proteins. The carbohydrate chains synthesized by these enzymes are designated as type 1, whereas beta4GalT enzymes synthesize type 2 carbohydrate chains. The ratio of type 1:type 2 chains changes during embryogenesis. By sequence similarity, the beta3GalT genes fall into at least two groups: beta3GalT4 and 4 other beta3GalT genes (beta3GalT1-3, beta3GalT5). This gene encodes a protein that functions in N-linked glycoprotein glycosylation and shows strict donor substrate specificity for UDP-galactose. [provided by RefSeq]

UniProt Comments for B3GALT2	B3GALT2: Beta-1,3-galactosyltransferase that transfers galactose from UDP-galactose to substrates with a terminal beta-N- acetylglucosamine (beta-GlcNAc) residue. Can also utilize substrates with a terminal galactose residue, albeit with lower efficiency. Involved in the biosynthesis of the carbohydrate moieties of glycolipids and glycoproteins. Inactive towards substrates with terminal alpha-N-acetylglucosamine (alpha-GlcNAc) or alpha-N-acetylgalactosamine (alpha-GalNAc) residues. Belongs to the glycosyltransferase 31 family. Protein type: EC 2.4.1.-; Glycan Metabolism - glycosphingolipid biosynthesis - lacto and neolacto series; Transferase; Membrane protein, integral Chromosomal Location of Human Ortholog: 1q31 Cellular Component: Golgi membrane; integral to membrane Molecular Function: UDP-galactose:beta-N-acetylglucosamine beta-1,3-galactosyltransferase activity Biological Process: oligosaccharide biosynthetic process; protein amino acid glycosylation
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